

Recent safety challenges have restricted land and hold short operations to clear weather and dry runways. NASA is developing advisory technology to increase the safety of landing operations in all weather conditions. Using NASA's Hold Short Advisory Landing Technology (HSALT), some current restrictions may also be reduced to safely increase capacity during poor weather.

The diagram illustrates a highway interchange with a vertical main road and an exit ramp branching off to the right. Various vehicle trajectories are shown, labeled with abbreviations: HR (Heavy Right Turn), MR (Medium Right Turn), LR (Light Right Turn), NR (No Right Turn), WR (Wrong Way), and FR (Frontal Collision). A blue arrow points from the text "Selected exit path" to the exit ramp. A green box contains the text "RATIO OF PREDICTED STOPPING DISTANCE TO AVAILABLE DISTANCE". A red arrow points from this box to the label "Ratio of predicted stopping distance to available distance".

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